

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P601097

Luminaire Tested: 22D3X-LP-30-L940

Issue Date: 10/5/2023

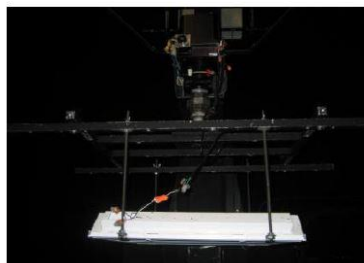
Test Information

Test Method: LM-79-2019
Report Number: P601097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-30-L940
Description: 2x2 D3X-LP AT 3000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

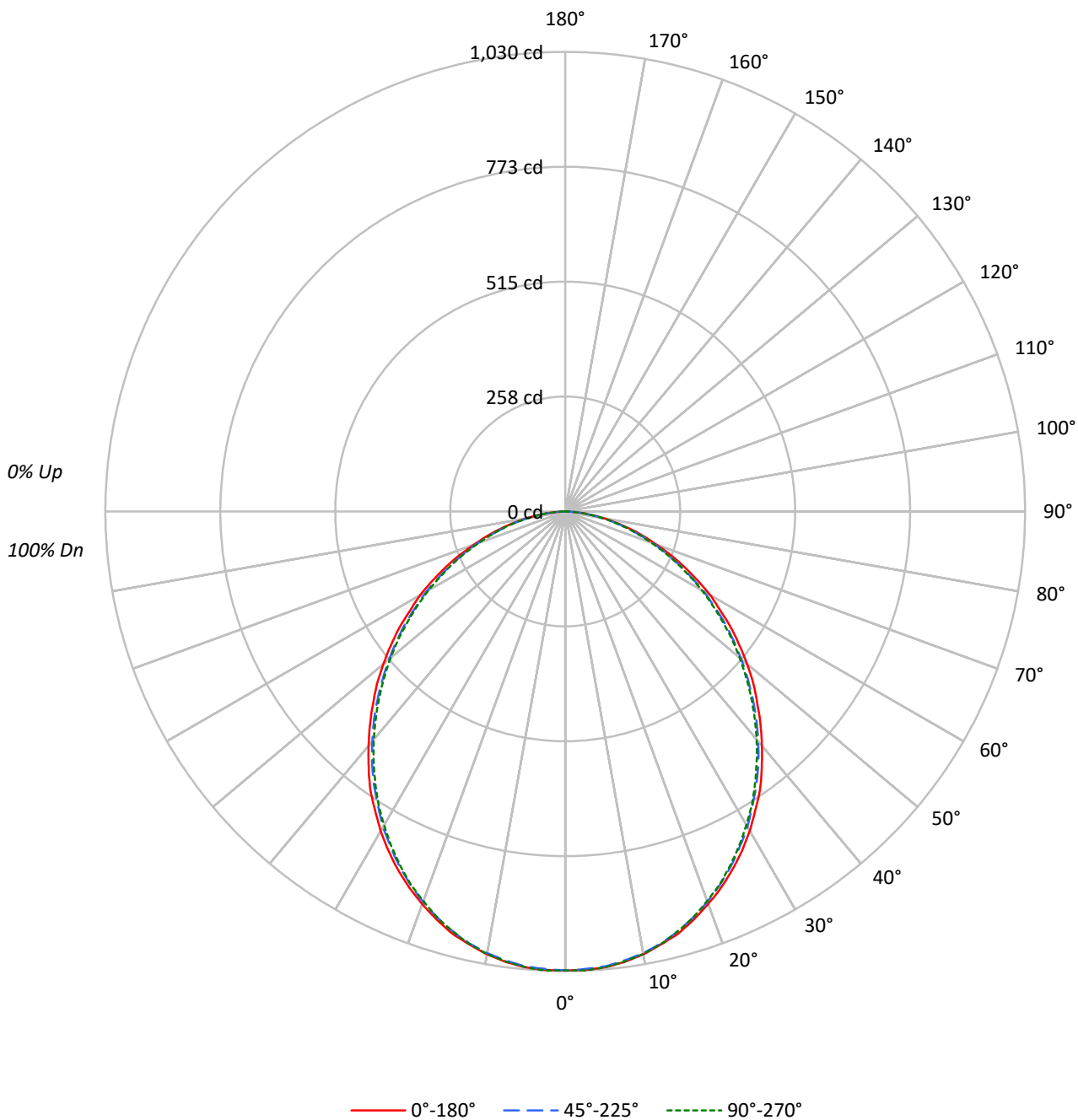
Lumens per Lamp: N/A
Luminaire Lumens: 2570.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 73 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 36 |
| 8 | 62 | 49 | 40 | 34 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2768 | 2768 | 2768 |
| 5° | 2770 | 2764 | 2770 |
| 10° | 2754 | 2746 | 2751 |
| 15° | 2728 | 2714 | 2714 |
| 20° | 2681 | 2666 | 2661 |
| 25° | 2631 | 2607 | 2597 |
| 30° | 2569 | 2537 | 2521 |
| 35° | 2500 | 2453 | 2436 |
| 40° | 2407 | 2361 | 2343 |
| 45° | 2316 | 2261 | 2242 |
| 50° | 2226 | 2153 | 2135 |
| 55° | 2124 | 2047 | 2018 |
| 60° | 2018 | 1929 | 1902 |
| 65° | 1878 | 1787 | 1768 |
| 70° | 1717 | 1652 | 1612 |
| 75° | 1566 | 1470 | 1481 |
| 80° | 1350 | 1269 | 1286 |
| 85° | 1044 | 1013 | 948 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2316 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.1 | 3.8 |
| 10°-20° | 274.7 | 10.7 |
| 20°-30° | 404.6 | 15.7 |
| 30°-40° | 468.0 | 18.2 |
| 40°-50° | 460.1 | 17.9 |
| 50°-60° | 392.1 | 15.3 |
| 60°-70° | 281.0 | 10.9 |
| 70°-80° | 152.6 | 5.9 |
| 80°-90° | 39.8 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 776.4 | 30.2 |
| 0°-40° | 1244.4 | 48.4 |
| 0°-60° | 2096.7 | 81.6 |
| 0°-90° | 2570.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2570.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1028 | 1028 | 1028 | 1028 | 1028 | |
| 5° | 1025 | 1023 | 1023 | 1023 | 1025 | 97 |
| 15° | 979 | 975 | 974 | 973 | 974 | 276 |
| 25° | 886 | 882 | 878 | 876 | 875 | 408 |
| 35° | 761 | 755 | 747 | 743 | 742 | 475 |
| 45° | 608 | 604 | 594 | 589 | 589 | 470 |
| 55° | 453 | 445 | 436 | 431 | 430 | 404 |
| 65° | 295 | 289 | 281 | 278 | 278 | 292 |
| 75° | 151 | 146 | 141 | 139 | 142 | 159 |
| 85° | 34 | 34 | 33 | 32 | 31 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1028.5 | 1028.5 | 1028.5 | 1028.5 | 1028.5 |
| 2.5° | 1028.5 | 1027.4 | 1026.4 | 1027.4 | 1029.5 |
| 5° | 1025.4 | 1023.3 | 1023.3 | 1023.3 | 1025.4 |
| 7.5° | 1018.2 | 1016.2 | 1015.1 | 1016.2 | 1017.2 |
| 10° | 1008.0 | 1005.9 | 1004.9 | 1005.9 | 1006.9 |
| 12.5° | 993.6 | 992.6 | 991.6 | 991.6 | 992.6 |
| 15° | 979.3 | 975.2 | 974.2 | 973.1 | 974.2 |
| 17.5° | 958.8 | 957.8 | 953.7 | 953.7 | 953.7 |
| 20° | 936.3 | 934.2 | 931.1 | 929.1 | 929.1 |
| 22.5° | 912.7 | 910.6 | 905.5 | 903.5 | 904.5 |
| 25° | 886.1 | 882.0 | 877.9 | 875.8 | 874.8 |
| 27.5° | 857.4 | 853.3 | 847.1 | 844.1 | 844.1 |
| 30° | 826.7 | 823.6 | 816.4 | 812.3 | 811.3 |
| 32.5° | 792.8 | 790.8 | 780.6 | 778.5 | 778.5 |
| 35° | 761.1 | 754.9 | 746.8 | 742.7 | 741.6 |
| 37.5° | 723.2 | 719.1 | 710.9 | 705.8 | 704.8 |
| 40° | 685.3 | 680.2 | 672.0 | 667.9 | 666.9 |
| 42.5° | 647.4 | 642.3 | 634.1 | 629.0 | 627.9 |
| 45° | 608.5 | 604.4 | 594.1 | 589.0 | 589.0 |
| 47.5° | 571.6 | 563.4 | 554.2 | 550.1 | 549.1 |
| 50° | 531.6 | 524.5 | 514.2 | 510.1 | 510.1 |
| 52.5° | 491.7 | 486.6 | 475.3 | 473.3 | 471.2 |
| 55° | 452.8 | 444.6 | 436.4 | 431.3 | 430.2 |
| 57.5° | 410.8 | 403.6 | 395.4 | 391.3 | 391.3 |
| 60° | 374.9 | 365.7 | 358.5 | 353.4 | 353.4 |
| 62.5° | 333.9 | 325.7 | 318.6 | 315.5 | 314.5 |
| 65° | 295.0 | 288.9 | 280.7 | 277.6 | 277.6 |
| 67.5° | 256.1 | 251.0 | 243.8 | 240.7 | 241.7 |
| 70° | 218.2 | 215.1 | 210.0 | 205.9 | 204.9 |
| 72.5° | 183.4 | 179.3 | 174.1 | 173.1 | 173.1 |
| 75° | 150.6 | 145.5 | 141.4 | 139.3 | 142.4 |
| 77.5° | 116.8 | 113.7 | 111.7 | 110.6 | 111.7 |
| 80° | 87.1 | 83.0 | 81.9 | 83.0 | 83.0 |
| 82.5° | 60.4 | 58.4 | 57.4 | 57.4 | 57.4 |
| 85° | 33.8 | 33.8 | 32.8 | 31.8 | 30.7 |
| 87.5° | 13.3 | 13.3 | 14.3 | 14.3 | 15.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)